

RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number:	10/000,151A
Source:	3910
Date Processed by STIC:	5/13/02

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FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

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Revised 01/29/2002



OIPE

Does Not Comply Corrected Diskette Needed

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/000,151A

DATE: 05/13/2002 TIME: 09:08:39

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              Balser, Jeffrey
              George, Alfred
      5
              Roden, Dan
      8 <120> TITLE OF INVENTION: HUMAN KCR1 REGULATION OF HERG POTASSIUM CHANNEL BLOCK
     10 <130> FILE REFERENCE: 1242-49-2
     12 <140> CURRENT APPLICATION NUMBER: US/10/000,151A
C--> 13 <141> CURRENT FILING DATE: 2002-04-29
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     16 <151> PRIOR FILING DATE: 2000-10-30
     18 <160> NUMBER OF SEQ ID NOS: 7
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RAW SEQUENCE LISTING DATE: 05/13/2002 PATENT APPLICATION: US/10/000,151A TIME: 09:08:39

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124		- A T	355		Y I	٧al	- +F	, цуз 360		, a ı			365		нтс	. 116	
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RAW SEQUENCE LISTING DATE: 05/13/2002 PATENT APPLICATION: US/10/000,151A TIME: 09:08:39

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RAW SEQUENCE LISTING DATE: 05/13/2002 PATENT APPLICATION: US/10/000,151A TIME: 09:08:39

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216 217	Leu	Phe	Ala	Tyr	Leu 165	Met	Cys	Leu	Tyr	Gly 170	Asn	His	Lys	Thr	Ser 175	Ala
220 221	Phe	Leu	Gly	Phe 180	Cys	Gly	Phe	Met	Phe 185	Arg	Gln	Thr	Asn	Ile 190	Ile	Trp
224 225	Ala	Val	Phe 195	Cys	Ala	Gly	Asn	Val 200	Ile	Ala	Gln	Lys	Leu 205	Thr	Glu	Ala
228 229	Trp	Lys 210	Thr	Glu	Leu	Gln	Lys 215	Lys	Glu	Asp	Arg	Leu 220	Pro	Pro	Ile	Lys
233	225					230					235				Ala	240
237					245					250					Trp 255	
241				260	•				265					270	Asn	
245	_		275		_			280					285		His	
249		290			_		295					300			Phe	
253	305					310	_		_		315				Val	320
257					325					330					Phe 335	
261		_	_	340					345					350	Asn	
265			355		_			360					365		Ala	
269		370	_				375		_			380			Ser	
273	385					390					395				Phe	400
277		_			405					410	_				Phe 415	
281	_			420		-			425	_				430	Leu	
285			435				_	440					445		Val	
289		450			-		455							Trp	Pro	Asn
293	465					470	Pne	Met	ттр							
297	<211)> SE L> LE	ENGTI	i: 11												
299	<213		RGAN]	SM:		sar	piens	3								
	Met)> SE Pro				Gly	His	Val	Ala	Pro 10	Gln	Asn	Thr	Phe	Leu 15	Asp

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/000,151A

DATE: 05/13/2002
TIME: 09:08:39

	Thr	Ile	Ile		Lys	Phe	Glu	Gly		Ser	Arg	Lys	Phe	Ile	Ile	Ala
307			.	20	01	3	G	77.	25	T1.	M			30	01	Dha
319	Asn	Ala	arg 35	vaı	GIU	ASN	Cys	40	vaı	ire	туг	Cys	45	Asp	СТУ	Pne
	Cve	Glu		Cve	Glv	ጥህዮ	Ser		Δla	Glu	Va 1	Met		Arg	Pro	Cvs
313	Cys	50	пец	Cys	Ory	111	55	1119	niu	OIU	V CL J.	60	0111	**** 9	110	015
	Thr		Asp	Phe	Leu	His		Pro	Arg	Thr	Gln		Arq	Ala	Ala	Ala
316		-1-				70	-		,		75	,	•			80
318	Gln	Ile	Ala	Gln	Ala	Leu	Leu	Gly	Ala	Glu	Glu	Arg	Lys	Val	Glu	Ile
319					85					90					95	
	Ala	Phe	Tyr		Lys	Asp	Gly	Ser		Phe	Leu	Cys	Leu	Val	Asp	Val
322				100	•	_		_	105	_	_		_	110		
	Val	Pro		Lys	Asn	Glu	Asp	_	Ala	Val	He	Met		Ile	Leu	Asn
325	Dh.	01. .	115	17.0.1	Wat	C1	T ***	120	Wat	17.5.1	C1	002	125	7 .1.5	ni a	7 00
327	Pne	130	vaı	Val	мес	GLU	135	ASP	мес	vaı	GTA	140	PIO	Ala	птъ	ASP
	Thr		Hic	Δra	Glv	Pro		Thr	Ser	Trn	Leu		Pro	Gly	Arσ	Ala
	145	21511	1115	**** 9	0-1	150	110		001		155		110	0-1	**** 9	160
		Thr	Phe	Arg	Leu	Lys	Leu	Pro	Ala	Leu	Leu	Ala	Leu	Thr	Ala	Arg
334	-				165	-				170					175	_
336	Glu	Ser	Ser	Val	Arg	Ser	Gly	Gly	Ala	Gly	Gly	Ala	Gly	Ala	${\tt Pro}$	Gly
337				180					185					190		
	Ala	Val		Val	Asp	Val	Asp		Thr	Pro	Ala	Ala		Ser	Ser	Glu
340		.	195	.	*	a 1	77 - 7	200		1/ - L	3	3	205	17- 1	31-	01
342	ser	ьеи 210	Ата	Leu	Asp	GIU	vai 215	Thr	Ата	мет	Asp	220	HIS	Val	Ата	СТА
	T.e.11		Pro	Δla	Glu	Glu		Arσ	Ala	Len	Va 1		Pro	Gly	Ser	Pro
	225	OLY	110	mu	O.Lu	230	1119	1119	1114	шец	235	017	110	0.1		240
		Arg	Ser	Ala	Pro		Gln	Leu	Pro	Ser		Arq	Ala	His	Ser	
349					245	-				250		•			255	
351	Asn	Pro	Asp	Ala	Ser	${\tt Gly}$	Ser	Ser	Cys	Ser	Leu	Ala	Arg	Thr	Arg	Ser
352				260					265					270		
	Arg	Glu		Cys	Ala	Ser	Val	-	Arg	Ala	Ser	Ser		Asp	Asp	Ile
355	a1		275		.1-	a 1	17- 1	280	D	D	D	D	285	TT -	21-	G
357	GIU	290	мес	Arg	Ата	GIA	295	Leu	PLO	PIO.	PIO	300	Arg	His	Ата	ser
_	Thr		Δla	Met	Hic	Pro		Δrα	Ser	Glv	T.eu		Δsn	Ser	Thr	Ser
	305	GLY	nia	HCC	1113	310	пси	nrg	JCI	OL,	315	ЦСи	71511	001	111.1	320
		Ser	Asp	Leu	Val		Tyr	Arq	Thr	Ile		Lys	Ile	Pro	Gln	
364	-		-		325		-	,		330		-			335	
366	Thr	Leu	Asn	Phe	Val	Asp	Leu	Lys	Gly	Asp	${\tt Pro}$	Phe	Leu	Ala	Ser	Pro
367				340					345					350		
	Thr	Ser	-	Arg	Glu	Ile	Ile		Pro	Lys	Ile	Lys		Arg	Thr	His
370		77- 3	355	a 2	.	17. 1	ml ·	360	77- 3	.	Q ====	T	365	n 1 -	3	37-3
	Asn		Tnr	GIU	гàг	val	Thr 375	GIn	val	ьeu	ser	180	GTĀ	Ala	Asp	vaı
373 375	T.eu	370 Pro	Glu	Тυг	Lve	Leu		Δla	Dro	Δra	Tlo		Δτα	Trp	Thr	Tlo
	385	FIU	GIU	TYL	пуз	390	GIII	лта	FIO	ату	395	штэ	A + 9	P	T.11T	400
		His	Tyr	Ser	Pro		Lys	Ala	Val	Trp		Trp	Leu	Ile	Leu	
			- 4													

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/000,151A

DATE: 05/13/2002 TIME: 09:08:40

Input Set : A:\HERG-KCR1rev1.ST25.txt
Output Set: N:\CRF3\05102002\J000151A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 1494,1624,1647,1649,1654,1674,1675,1676,1678,1682,1692,1696
Seq#:1; N Pos. 1711,1712,1714,1717,1725,1732,1738,1739,1744,1745,1750,1755
Seq#:1; N Pos. 1756,1757,1759,1763,1767,1768,1769,1773,1777,1778,1779,1782
Seq#:1; N Pos. 1783,1784,1786,1830,1849,1853

VERIFICATION SUMMARY

DATE: 05/13/2002

PATENT APPLICATION: US/10/000,151A

TIME: 09:08:40

Input Set : A:\HERG-KCRlrev1.ST25.txt
Output Set: N:\CRF3\05102002\J000151A.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:1442 L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:1622 L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:1682 L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:1742 L:166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:1802